Wednesday, August 10, 2016 PHOTONICS (f) (g) (in y) (D) PHOTONICS MEDIA

spectra

From the Editor's Desk

Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue.

Integrated photonics, infinite possibilities MIKE WHEELER, MANAGING EDITOR



Disruptive technologies such as self-driving cars, optical computers and ultrafast telecommunication networks all require

one thing to come to fruition: more complex integrated photonic circuits. For that to happen, researchers must continue to

push the limits of materials used to fabricate waveguides, filters, couplers and modulators found on the circuits. Read Article 😝 🚹 😵 🛅 💟

Simulation, Experiment Unite Graphene and Plasmonics Simulation tools bring the complex physics of two-dimensional materials and

Optical Metrology Breaks Barriers

At one time, the diffraction limit, half the wavelength of light, acted as

Superresolution techniques now allow optical metrology well below

a cutoff to optical measurement. That's no longer the case.

plasmonics together in a way that could change the face of optoelectronic devices.

that point in the XY direction, while interferometry and other approaches produce precise optical measurement in the Z, or vertical, direction.

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Display Technology Eliminates Need for 3D Glasses

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nonmetallic materials such as plastics and ceramics.

A novel design for 3D display in a cinema setting makes 3D viewable at high resolution and without the need for special eyewear. The prototype design, dubbed Cinema 3D, allows viewers to experience the same 3D effects from any seat in the theater.

Smart LED Bulbs Deliver Communication and Illumination Consumer-grade LED light bulbs can be enhanced with basic light-receiving electronics to enable the sensing of incoming signals from other light-emitting devices. The enhanced light bulbs are powerful enough to establish a communication link across several meters between light bulbs and LED-only systems that can be integrated into many devices.

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Visit Website Request Info Simplify Optomechanical Design Zemax LLC, Optical & Illumination Design Software Zemax introduces LensMechanix,

revolutionizes optomechanical product development. Save time,

Coatings

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coating facility specializing in the design and manufacture of vacuum deposited optical thin films used in the ultraviolet, visible and infrared

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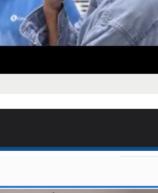
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Tue, Aug 23, 2016 12:00 PM - 1:00 PM EDT John Davis of Particle Measuring Systems will provide an overview of particle generation sources, control methods and ISO standards, to help you achieve a

clean environment that maximizes productivity. He will examine performance

contamination levels and will discuss how quality control can be compromised.

The advantages of continuous monitoring with laser particle counters will be discussed; and Davis will include multiple examples of particle excursions in the

optics industry that have been found and fixed, illustrating the types of

trends in the optics industry that are driving manufacturers to reduce

Controlling Quality in Advanced Optics Manufacturing

improvements that can be made through contamination control. John Davis is the Global Applications Engineering Manager at Particle Measuring Systems. Register Now

Features Lasers; Optical Communications; MEMS Displays; Image Sensor Advances; Positioning Systems **Issue Bonus** The EDU Issue: Optics & Photonics Education, A Global Report (with university directory and student distribution)

submit an informal 100-word abstract to Managing Editor Mike Wheeler at mike.wheeler@photonics.com or use our online submission form

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technical and practical information for every aspect of the global industry and promoting an international dialogue

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